



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/960,523	09/21/2001	Roland M. Hochmuth	10010901 -1	5310

7590 02/17/2004

HEWLETT-PACKARD COMPANY  
Intellectual Property Administration  
P.O. Box 272400  
Fort Collins, CO 80527-2400

EXAMINER

NGUYEN, HAU H

ART UNIT	PAPER NUMBER
----------	--------------

2676

DATE MAILED: 02/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/960,523

Applicant(s)

HOCHMUTH ET AL.

Examiner

Hau H Nguyen

Art Unit

2676

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 22 December 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

***Response to Arguments***

1. Applicant's arguments filed December 22, 2003 have been fully considered but they are not persuasive. In response to Applicant's arguments that reference Schneider et al. does not teach all the limitations of the invention, the examiner disagrees. As stated in previous Office Action, Schneider et al. teach a method for communicating across a network as shown in Fig. 1A, comprising an analyzing digitizer control application 240 (Fig. 3) for tracking which blocks change between successive screen captures. To track those changes, the analyzing digitizer control application 240 double buffers the digital video information received from the device driver. In this way, the analyzing digitizer control application 240 can compare (comparison logic) (1) the screen information stored in a first buffer for a previous frame (a frame buffer memory); and (2) the screen information stored in a second buffer for the image currently being captured (a temporary memory). Having identified the changed blocks, the analyzing digitizer control application 240 then need only redraw the changed areas as they change. The remote control software 200 then captures and transmits those changed blocks (a transmission logic) (see col. 8, lines 25-42). Since the claim language is given the broadest reasonable interpretation, and since reference Schneider et al. meets the minimum requirements of the claimed invention, rejections are maintained.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an

Art Unit: 2676

international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Schneider et al. (U.S. Patent No. 6,304,895).

Referring to claims 1-4, 14, and 16-17, and 19, Schneider et al. teach a method for communicating graphics across a network as shown in Fig. 1A, comprising a target controller 50 operates to capture the video output of the target device. The controller 50 includes a video digitizer that receives and converts the analog signals output by connected target device (col. 6, lines 14-15, and lines 26-28). The analyzing digitizer control application 240 can also improve efficiency by tracking which blocks change between successive screen captures. To track those changes, the analyzing digitizer control application 240 double buffers the digital video information received from the device driver. The analyzing digitizer control application 240 (Fig. 3) can compare (1) the screen information stored in a first buffer for a previous frame and (2) the screen information stored in a second buffer for the image currently being captured. Having identified the changed blocks, the analyzing digitizer control application 240 then need only redraw the changed areas as they change (overwriting with the compared portions). The remote control software 200 then captures and transmits those changed blocks (col. 8, lines 25-42). Schneider et al. further teach the controlling computer 12 (Fig. 1A) communicates with a target controller 50 using any selected communications protocol (e.g., TCP/IP, UDP, or RDP) (col. 5, lines 1-4) (packetized graphics information).

Referring to claims 5 and 18, Schneider et al. teach the remote control software application 200 is preferably one that performs lossless compression on the captured GDI calls before transmission (col. 7, lines 28-37).

Art Unit: 2676

In regard to claim 6, Schneider et al. further teach the controlling computer 12 (Fig. 1A) also includes a communications device 53 (a network interface) for communicating with the target device(s). Such a device 53 may include (1) a modem for connecting via a telephone connection, (2) a wireless transceiver for wirelessly communicating, and (3) a wired adapter (e.g., an Ethernet or token ring adapter) (col. 4, lines 63-67, and col. 5, line 1).

In regard to claims 7 and 8, Schneider et al. teach the target computers are server computers that are connected to a computer network and operate to perform such tasks as controlling the operation of the network, storing commonly used programs or data, or connecting a local area network (LAN) to a wide area network (WAN) (e.g., the Internet) (col. 3, lines 45-50).

Referring to claim 9, as cited above, Schneider et al. teach the controlling computer 12 (Fig. 1A) communicates with a target controller 50 using any selected communications protocol (e.g., TCP/IP, UDP, or RDP) (col. 5, lines 1-4).

In regard to claims 10-13, as shown in Figs. 1A and 1B, the communication system comprises a first video input from a local source and another video signal input from a remote source. As cited above, Schneider et al. teach previous frame is stored in a first buffer and current frame is stored in a second buffer.

Referring to claim 15, Schneider et al. teach the analyzing digitizer control application 240 can transmit the changed blocks to the remote control software 200 in either compressed or uncompressed format (col. 16, lines 47-50). Thus, it is implied that the input logic should include a logics configured to decompressed the compressed format.

*Conclusion*

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hau H. Nguyen whose telephone number is: 703-305-4104. The examiner can normally be reached on MON-FRI from 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on 703-308-6829.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D. C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

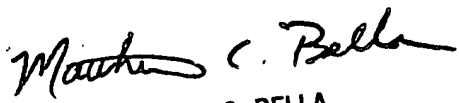
Art Unit: 2676

Hand-delivered response should be brought to Crystal Park II, 2121 Crystal Drive,  
Arlington, VA, Sixth floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding  
should be directed to the Technology Center 2600 Customer Service Office whose  
telephone number is (703) 306-0377.

H. Nguyen

02/13/2004

  
MATTHEW C. BELLA  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600